### Performance Specifications

**Feeder w/Rotary Straightener Option (Rx)**

<table>
<thead>
<tr>
<th>Wire Feed Resolution (inch)</th>
<th>0.0005</th>
<th>0.0005</th>
<th>0.0005</th>
<th>0.0005</th>
<th>0.0005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Feed Resolution (mm)</td>
<td>0.010</td>
<td>0.010</td>
<td>0.010</td>
<td>0.010</td>
<td>0.010</td>
</tr>
<tr>
<td>Std. wire feed speed</td>
<td>50 m/min</td>
<td>50 m/min</td>
<td>50 m/min</td>
<td>50 m/min</td>
<td>50 m/min</td>
</tr>
<tr>
<td>Std. wire feed speed (Feet)</td>
<td>180' f/min</td>
<td>180' f/min</td>
<td>180' f/min</td>
<td>180' f/min</td>
<td>180' f/min</td>
</tr>
</tbody>
</table>

**Benders**

<table>
<thead>
<tr>
<th>Bender Resolution (inch)</th>
<th>0.010</th>
<th>0.010</th>
<th>0.010</th>
<th>0.010</th>
<th>0.010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Bender angle (°)</td>
<td>0.05°</td>
<td>0.05°</td>
<td>0.05°</td>
<td>0.05°</td>
<td>0.05°</td>
</tr>
<tr>
<td>Max. Bender speed (Meters/Sec)</td>
<td>2.5 m/sec</td>
<td>2.5 m/sec</td>
<td>2.5 m/sec</td>
<td>2.5 m/sec</td>
<td>2.5 m/sec</td>
</tr>
<tr>
<td>Bender &amp; Center Clamp Slides**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Std. wire feed speed</td>
<td>55 m/min</td>
<td>55 m/min</td>
<td>55 m/min</td>
<td>55 m/min</td>
<td>55 m/min</td>
</tr>
<tr>
<td>Std. wire feed speed (Feet)</td>
<td>180’ f/min</td>
<td>180’ f/min</td>
<td>180’ f/min</td>
<td>180’ f/min</td>
<td>180’ f/min</td>
</tr>
</tbody>
</table>

**Center Clamp Rotation/3D Models**

<table>
<thead>
<tr>
<th>Center Clamp Width (Millimeters)</th>
<th>310 (mm)</th>
<th>300 (mm)</th>
<th>210 (mm)</th>
<th>285 (mm)</th>
<th>275 (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Carriage Travel (Inches)</td>
<td>12”</td>
<td>18”</td>
<td>19”</td>
<td>112”</td>
<td>18”</td>
</tr>
<tr>
<td>Max. Carriage Travel (Millimeters)</td>
<td>305 (mm)</td>
<td>300 (mm)</td>
<td>210 (mm)</td>
<td>285 (mm)</td>
<td>270 (mm)</td>
</tr>
<tr>
<td>Max. Carriage Torsion (Degrees)</td>
<td>0.5°</td>
<td>0.5°</td>
<td>0.5°</td>
<td>0.5°</td>
<td>0.5°</td>
</tr>
<tr>
<td>Max. Rotation-Axis resolution (°)</td>
<td>0.05°</td>
<td>0.05°</td>
<td>0.05°</td>
<td>0.05°</td>
<td>0.05°</td>
</tr>
</tbody>
</table>

**Turret Option (BDTs)**

| Turret Axis change time (sec) | 300 | 300 | 350 | 350 | 400 | 400 |

### Set-Up Time

<table>
<thead>
<tr>
<th>Same Wire Diameter</th>
<th>5 minutes</th>
<th>5 minutes</th>
<th>5 minutes</th>
<th>5 minutes</th>
<th>5 minutes</th>
<th>5 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change feeder rolls &amp; bending tools</td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>50 minutes</td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>40 minutes</td>
</tr>
</tbody>
</table>

### Power Consumption, Electrical & Air Requirements

**Average Power Consumption (kW)**
- AFM-2D AFM-2DH8: 1.6
- AFM-2DH10: 1.9
- AFM-2DH14: 2.0
- AFM-2DH16: 2.5

**Electrical requirement**
- 380V or 460V, 3 phase - all models***

**Installed Power**
- 37kVA
- 41kVA
- 45kVA
- 56kVA

**Air requirements**
- 100 PSI @ 2 SCFM - all models

### Dimensions & Weight

<table>
<thead>
<tr>
<th>Width (feet)</th>
<th>1.8m</th>
<th>1.8m</th>
<th>2m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (feet)</td>
<td>8.5ft</td>
<td>8.5ft</td>
<td>11ft</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>3900</td>
<td>3970</td>
<td>4200</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>1770</td>
<td>1780</td>
<td>1890</td>
</tr>
</tbody>
</table>

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**Notes:**
- *Other sizes available by custom order.
- **Power Consumption Data is measured on average production.
- ***Specify on Order.
- ****3D models w/ PCCs Option.

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**Call us for free with Skype:**

- AIM in Europe: +30 226 205 8900; sales@aimeuropeas.com
- AIM in USA: +1 (813) 568-0008; sales@aimmachines.com

**For more information, visit:**
- www.AIMmachines.com
- www.AIMEuropeas.com

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**Machine Model 3D**

<table>
<thead>
<tr>
<th>Model</th>
<th>AFM-2D</th>
<th>AFM-2DH8</th>
<th>AFM-2DH10</th>
<th>AFM-2DH12</th>
<th>AFM-2DH14</th>
<th>AFM-2DH16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Diameter Range (Millimeters)</td>
<td>2mm - 6.35mm</td>
<td>3mm - 8mm</td>
<td>4mm - 10mm</td>
<td>4mm - 12mm</td>
<td>6mm - 14mm</td>
<td>6mm - 16mm</td>
</tr>
<tr>
<td>Wire Torsion (inches)</td>
<td>0.078° - 0.206°</td>
<td>0.118° - 0.315°</td>
<td>0.167° - 0.425°</td>
<td>0.167° - 0.425°</td>
<td>0.250° - 0.635°</td>
<td>0.250° - 0.635°</td>
</tr>
<tr>
<td>Max. Wire Length (Inches)</td>
<td>13.78”</td>
<td>13.78”</td>
<td>13.78”</td>
<td>13.78”</td>
<td>13.78”</td>
<td>13.78”</td>
</tr>
<tr>
<td>Center Clamp Width (Millimeters)</td>
<td>69mm</td>
<td>69mm</td>
<td>89mm</td>
<td>97mm</td>
<td>130mm</td>
<td>130mm</td>
</tr>
</tbody>
</table>

**Electrical & Air Requirements**

- **Power Consumption, Electrical & Air Requirements**
  - 48KVA
  - 58kVA

---

**Call us for a FREE DVD video, brochures, samples and production rates along with a complete statistical analysis of your production.**
Two Benders double the capabilities...

The AFM-DH line of equipment is designed with the old four-slide technology in mind but without the time consuming intricate setups, costly tooling, and the need for an expert operator. The DH or "Double Head" machine has two individual bending heads. Each bending head positions along a straight wire and bends according to pre-programmed data. The operator can manually set a straight pre-cut wire to the bender or an automatic wire feeding module. Each bending head has an automatic wire magazine feeds with Hopper module.

High Tech Bending Heads

Each Bending Head can be programmed to provide 8 moves and directions:
- Left and right, positioning parallel to the wire, locating the position of a bend
- Clockwise and counter-clockwise to bend the wire
- Up or down (recessing for clearance between bends)
- Bending Pin up or down that allows for clearance between bends, without having to lower the bending head
- Bending head Wire Clamp rotation (extend or retract), which helps to guide the wire while bending. When distances are critical, the bending head wire clamp can be programmed to swing away allowing for smaller bend to bend distances
- Bending head Wire Clamp engage or disengage, to allow wire engagement or disengagement
- Bending head Wire Clamp engage or relieve

The Turret option adds another two programmable moves:
- Bender turret (or tool-cluster) for programmable bend radii
- Center Wire Clamp

The Center Wire Clamp option can be programmed to move back and forward, providing more programming flexibility and smaller bend to bend distance. Programmable moves:
- Center Clamp engage or disengage for wire clamping
- Center Clamp extend or retract, allowing the user to program for small parts and smaller bend to bend distances
- Part eject, in or out, for part ejection
- The three dimensional option (AFM3DHX machines) adds another axis to the system, allowing the wire clamp to be rotated through the program

Innovation & Revolution...

AIM’s programmable CNC steel wire bending machines have revolutionized the wire bending process. The AccuForm line dramatically increases productivity yet has the simplest operator interface while incorporating advanced servo technology.

For a complete automated production line the following options can be added:
- Automatic wire feeder with Rotary straightener module
- Automatic speed wire payoff unit for up to 2,000 Kgr (4,400 Lbs)
- Wire pre-straightener
- Opposing Dual Arbor rotary wire straightener
- Wire Feeder
- Wire length measuring device
- Pneumatic or Hydraulic wire cutter
- Straight wire transfer mechanism
- Automatic wire magazine feed with Hopper module
- Wire magazine for 50 wire length pieces, 4m long (pre-cut) at 8mm wire diameter, can fit more pieces with smaller diameter wires
- Wire transfer mechanism
- Turret Benders Programmable center turret for multiple radii
- This option adds an additional 2 axes onto the machine to program up to 4 different radii per bender
- Programmable position of the Center Clamp
- Complex part programming with a 3m maximum stroke along carriage. Helps minimize setup time by automatically recalculating position of center clamp within every program
- Wire piece cut-off at the right of the center clamp
- Ideal for making high quantities of symmetrical parts. On 6mm machines or larger, this includes hydraulic unit for wire cutoff. Minimum cut length on each end is 2 times the wire diameter. Requires Rotary Straightener module

Multiple operations at the same time... save time!

The AFM-DH has up to five independent coordinate systems:
- Feeder / Hopper
- Left Bending and Slide
- Right Bending and Slide
- Rotation and Center Slide
- Welding Module

Since all coordinate systems are independent to each other, they all can work simultaneously, synchronized by the master center slide coordinate. All of the above coordinates are simple set ups via AIM’s exclusive SmartEditor software. All required algorithms needed are generated automatically. There is no need for complex trajectory calculations, nor any motion control programming. The operator enters lengths and angles that comprise the desired part and SmartEditor does all the rest. For the more advanced users SmartEditor allows text entry for each step.

AIM’s hallmark machine building skills and construction techniques provide for the most rigid structure yielding longest industry machine life. The extreme cycle speeds that can be reached are a direct result of the super strong machine structure incorporating a special design for improved stability, while minimizing vibrations, increasing speeds, and accuracy.

Simple Programming Interface.

SmartEditor helps figure out machine movements. User only needs to add feed length, bend angle, radius size & tool configuration.